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Ref. 12144ROUS01U

ABSTRACT

An apparatus for implementing a collision avoidance mechanism in a bufferless network. The apparatus includes first and second inputs for receiving traffic units from first and second source points, respectively. The traffic units from the first source point arrive at the first input on a basis of The traffic units from the second a first traffic pattern. source point arrive at the second input on a basis of a second traffic pattern. The apparatus further includes a traffic detection unit and a notification unit. The traffic detection unit is operative to monitor the traffic units received at the first and second inputs for detecting the first and second traffic patterns. The notification unit is operative to generate a control signal for transmission to either one of the first and second source points on a basis of the detected first and second traffic patterns. This control signal is directive to regulate at least in part the traffic pattern of the traffic units sent from either one of the first and second source points such that a possibility of collision is reduced.